

Summary of Cycle Track Safety Study Literature Review: Considerations in Interpreting Results

Study Author(s)	Controlled for Exposure	Included All Crash Types	Results Based on Empirical Data	Before/ After Study	Examined Injury Severity	Published, Peer-Reviewed Study	Notes
Cycle Track Safety Studies							
West Berlin Police (1987)		✓	✓	✓	✓		Lacked cyclist volume (exposure) data / did not assess relative risk
Bach et al (1988)		✓	✓	✓			Lacked cyclist volume (exposure) data / did not assess relative risk
Wegman & Dijkstra (1988)	✓	✓	✓			✓	Included moped use of cycle tracks (later prohibited)
Welleman & Dijkstra (1988)	✓	✓	✓			✓	Included moped use of cycle tracks (later prohibited)
Garder et al (1994)	✓			✓		✓	Combined opinion survey results with empirical data
Larsen (1994)		✓	✓			✓	Lacked cyclist volume (exposure) data / did not assess relative risk
Eilert-Petersson & Schelp (1997)		✓	✓			✓	Lacked cyclist volume (exposure) data / did not assess relative risk
Pasanen (Undated)	✓	✓	✓	✓			
Rasanen & Summala (Sept 1998)	✓	✓	✓			✓	
Pasanen & Rasanen (1999)	✓	✓	✓				
Jensen (2007)	*	✓	✓	✓	✓		Results evaluated by comparison to prediction model
Agerholm (2008)			✓	✓	**		Lacked cyclist volume (exposure) data / did not assess relative risk
Lusk et al (2011)	✓	✓	✓			✓	

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Study on Safety of Sidewalk Riding (U.S.)							
Wachtel & Lewiston (1994)	✓		✓			✓	Study of sidewalk riding
Studies of Effectiveness of Intersection Safety Measures for Cycle Tracks							
Leden (1990)	✓	NA					Combined opinion survey results with empirical data
Linderholm (1992)	✓	NA	✓	✓		✓	
Herrstedt et al (1994)	✓	NA	✓	✓			
Summala et al (1996)	✓	NA	✓	✓		✓	
Garder et al (1998)	✓	NA		✓		✓	Combined opinion survey results with empirical data
Rasanen & Summala (Feb 1998)	✓	NA	✓	✓		✓	
Leden et al (2000)	✓	NA		✓		✓	Combined opinion survey results with empirical data
Jensen (2008)	✓	NA	✓	✓	***	✓	Results evaluated by comparison to prediction model
Schepers et al (2011)	✓	NA	✓			✓	
NA – Not applicable because, by design, these studies were about intersection safety measures.							

* Increase in number of cyclists factored into model of expected crashes, but change in cyclist risk, based on collisions/injuries relative to exposure, not evaluated.

** Results for severe and fatal injury collisions were not statistically significant.

*** Severity not analyzed for specific configurations of intersection crossing treatments (colored crossings).